

Title (en)
HETEROPHASIC PROPYLENE COPOLYMER

Title (de)
HETEROPHASICSCHES PROPYLENCOPOLYMER

Title (fr)
COPOLYMÈRE DE PROPYLÈNE HÉTÉROPHASIQUE

Publication
EP 3551677 A1 20191016 (EN)

Application
EP 17811330 A 20171212

Priority
• EP 16203438 A 20161212
• EP 2017082454 W 20171212

Abstract (en)
[origin: WO2018108927A1] The invention relates to a process for the preparation of a final heterophasic propylene copolymer (A) having a final melt flow rate in the range from 65 to 110 dg/min as measured according to ISO1133 at 230 °C and 2.16 kg, comprising visbreaking an intermediate heterophasic propylene copolymer (A') having an intermediate melt flow rate, which intermediate melt flow rate is lower than the final melt flow rate, to obtain the final heterophasic propylene copolymer, wherein the intermediate heterophasic propylene copolymer (A') consists of: (a) a propylene-based matrix, wherein the propylene-based matrix consists of a propylene homopolymer, wherein the melt flow rate of the propylene-based matrix is in the range from 75 to 85dg/min as measured according to ISO1133 at 230 °C and 2.16 kg, (b) a dispersed ethylene- α -olefin copolymer, wherein the amount of ethylene incorporated into the ethylene- α -olefin copolymer is in the range from 45 to 55wt% based on the ethylene- α -olefin copolymer, wherein the amount of ethylene- α -olefin copolymer is less than 15wt% and at least 10 wt% based on the intermediate heterophasic propylene copolymer, wherein the melt flow rate of the ethylene- α -olefin copolymer is in the range from 0.50 to 2.0 dg/min as calculated using formula (I), wherein MFR heterophasic is the melt flow rate of the intermediate heterophasic propylene copolymer measured according to ISO1133 (2.16kg/230 °C), MFR PP is the MFR of the propylene-based matrix of the intermediate heterophasic propylene copolymer measured according to ISO1133 (2.16kg/230 °C), matrix content is the amount of the propylene-based matrix in the intermediate heterophasic propylene copolymer and rubber content is the amount of the dispersed ethylene- α -olefin copolymer in the intermediate heterophasic propylene copolymer, wherein the sum of the total amount of propylene-based matrix and total amount of the dispersed ethylene- α -olefin copolymer in the intermediate heterophasic propylene copolymer is 100 wt% based on the intermediate heterophasic propylene copolymer.

IPC 8 full level
C08F 210/06 (2006.01); **C08K 5/092** (2006.01); **C08L 23/12** (2006.01)

CPC (source: EP US)
C08F 2/001 (2013.01 - US); **C08F 4/022** (2013.01 - US); **C08F 4/32** (2013.01 - US); **C08F 4/651** (2013.01 - US); **C08F 110/06** (2013.01 - US); **C08F 210/06** (2013.01 - EP US); **C08F 210/16** (2013.01 - US); **C08K 3/34** (2013.01 - US); **C08K 3/346** (2013.01 - EP); **C08K 5/0083** (2013.01 - EP US); **C08K 5/098** (2013.01 - EP US); **C08L 23/12** (2013.01 - EP US); **C08L 23/142** (2013.01 - US); **C08L 23/16** (2013.01 - US); **C08K 2201/014** (2013.01 - EP US); **C08L 23/0815** (2013.01 - US); **C08L 2205/02** (2013.01 - EP US); **C08L 2207/02** (2013.01 - EP US); **C08L 2314/02** (2013.01 - EP US)

C-Set (source: EP)
1. **C08F 210/06 + C08F 210/16 + C08F 2500/12 + C08F 2500/21**
2. **C08F 210/06 + C08F 2/001**
3. **C08F 210/06 + C08F 4/651**
4. **C08L 23/12 + C08L 23/0815**
5. **C08K 5/0083 + C08L 23/12**
6. **C08K 5/098 + C08L 23/12**
7. **C08K 3/346 + C08L 23/12**

Citation (search report)
See references of WO 2018108927A1

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